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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/037,648	01/03/2002	Doug Smith	10160/6	6540
7590 03/18/2004 BRINKS HOFER GILSON & LIONE POST OFFICE BOX 10395 CHICAGO, IL 60610			EXAMINER	
			HEITBRINK, JILL LYNNE	
			ART UNIT	PAPER NUMBER
		,	1732	
			DATE MAILED: 03/18/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		10/037,648	SMITH ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Jill L. Heitbrink	1732			
Period fe	The MAILING DATE of this communication a	ppears on the cover sheet wit	h the correspondence address			
THE - Exte after - If the - If NC - Failt Any	ORTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. It is period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by stature reply received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a re, ply within the statutory minimum of thirty d will apply and will expire SIX (6) MONT te. cause the application to become ABA	ply be timely filed  (30) days will be considered timely.  HS from the mailing date of this communication.			
Status	, ,					
1)	Responsive to communication(s) filed on					
-/-	This action is <b>FINAL</b> . 2b) This action is non-final.					
3)	,—					
	closed in accordance with the practice under					
Dispositi	on of Claims					
	Claim(s) <u>1-42</u> is/are pending in the application	n				
	4a) Of the above claim(s) is/are withdrawn from consideration.					
	☐ Claim(s) is/are allowed.					
_	Claim(s) <u>1-42</u> is/are rejected.					
7)	· · · · · · · · · · · · · · · · · · ·					
′—	Claim(s) are subject to restriction and/	or election requirement.				
	on Papers	·				
9)[].	The specification is objected to by the Examin	۵r				
	The drawing(s) filed on is/are: a) ac		the Eveniner			
,	Applicant may not request that any objection to the					
	Replacement drawing sheet(s) including the correct					
11) 🗆 .	The oath or declaration is objected to by the E					
		Assuming the the attached (	Since Action of Idilli F I U-132.			
	nder 35 U.S.C. § 119					
	Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. § 1	19(a)-(d) or (f).			
	All b) Some * c) None of:					
	1.☐ Certified copies of the priority documen					
	2. Certified copies of the priority documents have been received in Application No					
	3.☐ Copies of the certified copies of the price		eceived in this National Stage			
	application from the International Burea	`				
* S	ee the attached detailed Office action for a list	of the certified copies not re	ceived.			
ttachment	•					
) Notice	of References Cited (PTO-892)	4) Interview Sun	nmary (PTO-413)			
) 🔲 Notice ) 🔯 Inform	of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)		Mail Date rmal Patent Application (PTO-152)			
Paper	No(s)/Mail Date <u>040802</u> .	6)  Other:				
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OL-326 (Re	v. 1-04) Office A	ction Summary	Part of Paper No./Mail Date 030904			

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## Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 2. Claims 14-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 3. Claims 14-16, 18 and 19 should be dependent from claim 13.

## Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1-5, 8, 12, 21, 22 and 24 are rejected under 35 U.S.C. 102(b) as being anticipated by Webster (Pat. No. 4,017,237).
- 6. Webster (col. 3, lines 36-col. 4, line 18) discloses a process and apparatus for sequentially injecting molten material including clamping the mold platens 7 and 8, injecting into a first mold cavity to fill and pack, holding material in the first mold cavity to begin cure, injecting material into a second mold cavity to fill and pack and holding material in the second mold cavity to cure. A time control is disclosed by Webster when describing the process steps, col. 3, lines 58- col. 4, line 5. The means for reducing flow are the gates and/or the filled mold cavity.

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- 7. Claims 1-6, 8-13, 15-22, 24-30 and 32-42 are rejected under 35 U.S.C. 102(b) as being anticipated by Kazmer et al. (Pat. No. 6,632,079). See Fig. 35.
- 8. The sequential filling of multiple cavities is disclosed (Kazmer et al. col. 11, lines 59-62). Linear transducer 820 measures the position of the screw ram and is supplied to the control unit. The cavity pressure transducers 824 and 826 are used to trigger the switchover in the target profiles of the cavities, see col. 25, line 30-col. 26, line 31.

## Claim Rejections - 35 USC § 103

- 9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 10. Claims 6, 11, are rejected under 35 U.S.C. 103(a) as being unpatentable over Webster (Pat. No. 4,017,237) taken together with Tarr et al. (Pat. No. 5,919,492).
- 11. Webster (col. 3, lines 36-col. 4, line 18) discloses a process and apparatus for sequentially injecting molten material including clamping the mold platens 7 and 8, injecting into a first mold cavity to fill and pack, holding material in the first mold cavity to begin cure, injecting material into a second mold cavity to fill and pack and holding material in the second mold cavity to cure. A time control is disclosed by Webster when describing the process steps, col. 3, lines 58- col. 4, line 5. The means for reducing flow are the gates and/or the filled mold cavity. Tarr et al. teach the use of the screw

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position to control the opening sequence of the valves to the mold cavities. It would have been obvious to a person of ordinary skill in the art to use the teaching of Tarr et al. in Webster since Tarr et al. (col. 1, line 38-50) is an improvement of the timed control of Webster.

- 12. Claims 7, 13-20 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over either Webster (Pat. No. 4,017,237) taken together with Hunerberg et al. (Pat. No. 5,135,703).
- 13. Hunerberg et al teach the use of mold cavities with multi-gate mold cavities. It would have been obvious to a person of ordinary skill in the art that the multiple cavities in Webster would have multiple gates depending on the article (size and shape) being molded.
- 14. Claims 7, 14, 23 and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kazmer taken together with Hunerberg et al. (Pat. No. 5,135,703).
- 15. Hunerberg et al teach the use of mold cavities with multi-gate mold cavities. It would have been obvious to a person of ordinary skill in the art that the multiple cavities in Kazmer would have multiple gates depending on the article (size and shape) being molded.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jill L. Heitbrink whose telephone number is 571-272-1199. The examiner can normally be reached on Monday - Friday 9:30-2:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael P. Colaianni can be reached on 571-272-1196. The fax phone

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number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jill L. Heitbrink
Primary Examiner
Art Unit 1732

jlh